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APPLICATION NO.	F	ILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/662,297	_	09/16/2003	Akihisa Umetani	K06-156876M/TBS	1764
21254	7590	06/23/2005		EXAM	INER
MCGINN 6	•		HEPPERLE, STEPHEN M		
8321 OLD 0 SUITE 200	COURTHO	OUSE ROAD .	ART UNIT	PAPER NUMBER	
VIENNA, V	/A 22182	2-3817 .	3753		

DATE MAILED: 06/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			Si
		Application No.	Applicant(s)
		10/662,297 UMETANI, AKIHISA	
	Office Action Summary	Examiner	Art Unit
. <u>-</u>		Stephen M. Hepperle	3753
 Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet wit	th the correspondence address
THE MA - Extension after SIX - If the period of the period	RTENED STATUTORY PERIOD FOR REPLY AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute ly received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty vill apply and will expire SIX (6) MONT , cause the application to become ABA	ply be timely filed (30) days will be considered timely. (HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status			
_1)□ R	Responsive to communication(s) filed on		
•		action is non-final.	
3)□ S	since this application is in condition for allowa	nce except for formal matte	ers, prosecution as to the merits is
cl	losed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.
Dispositio	n of Claims	-	
4)⊠ C	claim(s) <u>1-10</u> is/are pending in the application		
48	a) Of the above claim(s) is/are withdraw	wn from consideration.	
5)∏ C	Claim(s) is/are allowed.		
6)⊠ C	claim(s) <u>1-10</u> is/are rejected.	•	
7) 🗌 C	Claim(s) is/are objected to.	•	
8) 🗌 C	Claim(s) are subject to restriction and/o	r election requirement.	
Applicatio	n Papers		
9)⊠ Tł	he specification is objected to by the Examine	er.	
10)⊠ Ti	he drawing(s) filed on <u>05 January 2004</u> is/are	: a)⊠ accepted or b)□ ob	pjected to by the Examiner.
Α	pplicant may not request that any objection to the	drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).
R	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) 🗌 Th	he oath or declaration is objected to by the Ex	caminer. Note the attached	Office Action or form PTO-152.
riority un	der 35 U.S.C. § 119		
12)⊠ A	cknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).
a)⊠	All b) ☐ Some * c) ☐ None of:		
1	. Certified copies of the priority document	s have been received.	
. 2	. Certified copies of the priority document	s have been received in Ap	oplication No
3	. Copies of the certified copies of the prio	rity documents have been i	received in this National Stage
	application from the International Bureau	u (PCT Rule 17 2(a))	
	application from the international pareat	a (1 0 1 1 tail 1 1 .2 (a)).	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5 Jan 04</u>.

Attachment(s)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other: _

5) Notice of Informal Patent Application (PTO-152)

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Figure 14 should be designated by a legend such as --Prior Art-- because it appears that only which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The disclosure is objected to because of the following informalities: on page 2, line 7, the reference to Fig. 9 is incorrect. Did applicant intent Fig. 14?

Applicant is requested to delete the claims from the Summary of the Invention section and replace it with text as described below.

Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.

Appropriate correction is required.

Claims 1-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with

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which it is most nearly connected, to make and/or use the invention. In claim 1, line 23, it is unclear what is meant by "reflux port", as the specification only seems to support a reflux passage (page 15, line 2.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1, line 25, "the first damper" lacks antecedent basis. Should "damper" be "chamber"?

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 10 are rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hamano et al. Haano appears to be the sdame valve described by applicant on pp. 2-5 of the specification. Valve sleeve 52 divides the casing 51 into a lower first and upper second chamber. Spool 66 resides in the first chamber and is biased toward the second chamber by spring 64, trapping annular elastically deformable valve 65 and shim 67 therebetween. Hamano discloses the elastic deformation of valve 65 to open the communicating passages 56, but not movement of the sleeve. It is noted that the reference

USC 102. Further, to the extent that any patentable weight can be ascribed to the recited opening action of the valve and spool, it is seen as inherent to Hamano, as there is some pressure at which the spool would slide against the spring. There would not seem to be any reason for a spring if not to yield under some circumstance. Alternatively, under 35 USC 103, it would have been obvious to size the bias force of the spring so that the spool can move open to provide a larger opening and to reduce the elastic deformation required by the valve for a given valve opening.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamano. It would have been obvious to form the shim 67 and valve 65 as a single part to reduce assembly steps and number of parts.

Claims 7-9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Miyazaki shows a similar device to applicant's, without the elastically deformable valve. Asbrand shows a similar device where a spool 31 moves against a spring to open a large passage 25, 26.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Hepperle whose telephone number is 571-272-4913. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on 571-272-4930. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen M. Hepperle Primary Examiner Art Unit 3753

SMH